



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246

Print

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0041674	ACI001-VC	1		1 Net 30	M6061T6B1.250X4.500	6061-T6 Bar 1.25 X 4.50 ; MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12	11/21/2018	12		S131147	Stock	11/23/2018	\$ 34.79 / ft	0		\$417.50	Acier Ouellette Inc.
		2			M6061T6B1.750X1.750	6061-T6 Bar 1.750 X 1.750 ; MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft						12		S131148	Stock	11/23/2018	\$ 14.25 / ft	0		\$170.96	Acier Ouellette Inc.
		10			M6061T6R1.875	6061-T6 Round Bar 1.875" ; MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft						12		S131149	Stock	11/23/2018	\$ 18.75 / ft	0		\$225.00	Acier Ouellette Inc.
		11			M6061T6R2.750	6061-T6 Round Bar 2.750" ; MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft					20	20		S131150	Stock	11/23/2018	\$ 22.65 / ft	0		\$453.05	Acier Ouellette Inc.

Plex 11/27/2018 3:55 PM dart.Tollis.Andrew



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO041674

**Supplier:** ACI001-VC  
Acier Ouellette Inc.  
935 Boul. Du Havre  
Valleyfield  
QC  
J6S 5L1 Canada  
Phone: 800 667 4248  
Fax: 450 377 5696

**PO No:** PO041674

**PO Date:** 11/9/18

**Due Date:** 11/15/18

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
Phone: clavoie@dartaero.com

**E-MAILED**  
NOV 09 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** extra charge for palette  
quote no: SOU0144781

## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 AT		M6061T6B1.250X4.500		6061-T6 Bar 1.25 X 4.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/9/18	12 ft	0 ft	12 ft	\$34.791666/ft	\$417.50
2 AT		M6061T6B1.750X1.750		6061T6 Bar 1.750 X 1.750 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	12 ft	0 ft	12 ft	\$14.246666/ft	\$170.96
3 AT		M6061T6B0.375X1.000		6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$1.575/ft	\$31.50



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# **PURCHASE ORDER** **PO041674**

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4 ✓ AK		M6061T6B0.750X06.000		6061T6 Bar .750 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	24 ft	0 ft	24 ft	\$20.355/ft	\$488.52
								✓ 24 ft		AK 13/11/14		
5 ✓ AK		M6061T6B1.000X1.000		6061T6 Bar 1.000 X 1.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	24 ft	0 ft	24 ft	\$4.1158333/ft	\$98.78
								✓ 24 ft		AK 13/11/14		
6 ✓ AK		M6061T6B2.000X01.250		6061-T6 Bar 2.00 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	-	11/15/18	36 ft	0 ft	36 ft	\$10.318/ft	\$371.45
								✓ 36 ft		AK 12/11/14		
7 ✓ AK		M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	40 ft	0 ft	40 ft	\$3.015/ft	\$120.60
								✓ 40 ft		AK 13/11/14		
8 ✓ AK		M6061T6R1.250		6061-T6 Round Bar 1.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	40 ft	0 ft	40 ft	\$4.697/ft	\$187.88
								✓ 40 ft		AK 13/11/14		





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## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
9 ✓ AT		M6061T6R0.500		6061-T6 Round Bar .500" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft ✓ 20ft	0 ft	20 ft	\$0.8085/ft	\$16.17 AT 18/11/14
10 ✓ AT		M6061T6R1.875		6061-T6 Round Bar 1.875" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	12 ft ✓ 12ft	0 ft	12 ft	\$18.75/ft	\$225.00 AT 18/11/23
11 ✓ AT		M6061T6R2.750		6061-T6 Round Bar 2.750" : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-AA-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/15/18	20 ft ✓ 20ft	0 ft	20 ft	\$18.75/ft	\$375.00 AT 18/11/23
Line Item Note: NOTE CUT BAR IN SECTION OF 10 FT												
12 ✓ AT		M6061T6S.500		6061-T6 0.500 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	11/15/18	16 sf ✓ 16sf	0 sf	16 sf	\$29.8875/sf	\$478.20 AT 18/11/14
Line Item Note: 1 PCS 48" X 48"												
13 ✓ AT		M304R1.000		304 Round Bar 1.00 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	11/15/18	36 ft ✓ 41ft	0 ft	36 ft	\$12.654416/ft	\$455.56 AT 18/11/14
14 ✓ AT		M304R0.375		304 Round Bar 0.375 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	11/15/18	12 ft ✓ 12.08ft	0 ft	12 ft	\$1.2558333/ft	\$15.07 AT 18/11/14



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Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
15 ✓ AT		MT-4140QT-R0.375		AISI 4140 Quenched & Tempered Steel Round Bar 0.375" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	-	11/23/18	12 ft	0 ft	12 ft	\$31.96/ft	\$383.52
16 ✓ AT		MT-4140QT-R0.875		AISI 4140 Quenched & Tempered Steel Round Bar 0.875" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	-	11/15/18	20 ft	0 ft	20 ft	\$4.2115/ft	\$84.23
Line Item Note note cut bar in section 10 ft												
17 ✓ AT		MT-4140QT-R4.500		AISI 4140 Quenched & Tempered Steel Round Bar 4.500" Dia. : MATERIAL: AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT	Firmed	-	11/15/18	5 ft	0 ft	5 ft	\$79.466/ft	\$397.33
18 ✓ AT		MT-1144-R4.000		AISI 1144 Stressproof Round Bar 4.000" : MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR  ASTM A311 or UNS G11440	Firmed	-	11/23/18	8 ft	0 ft	8 ft	\$98.125/ft	\$785.00
19 ✓ AT		MT-1144-R5.000		AISI 1144 Stressproof Round Bar 5.000" : MATERIAL: AISI 1144 STRESSPROOF STEEL ROUND BAR  ASTM A311 or UNS G11440	Firmed	-	11/15/18	4 ft	0 ft	4 ft	\$397.1625/ft	\$1,588.65



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# **PURCHASE ORDER** **PO041674**

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
20 ✓ AT		MT-4140-S-2.000X4.000		Steel Plate : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	-	11/15/18	8 ft	0 ft	8 ft	\$98.125/ft	\$785.00
21 ✓ A		MT-4140-S-1.500X2.000		4140 Steel Bar 1.500 X 2.000 : MAT'L: AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM ROCKWELL C = 32 Rc ASTM A829, AMS 6395 receive ft	Firmed	-	11/15/18	8 ft	0 ft	8 ft	\$48.125/ft	\$385.00
22 ✓ AT		MT-A513-T- 5.250W0.375		ASTM A513 Type 5 Alloy Steel Round Tubing 5.250 Dia, 0.375 Wall	Firmed	-	11/15/18	8 ft	0 ft	8 ft	\$103.75/ft	\$830.00
23		MT-O1-B-0.375X0.500		Tool Steel Bar-0.375" X 0.500"	Firmed	-	11/15/18	6 ft	0 ft	6 ft	\$21.08333/ft	\$126.50
24		MT-O1-R0.375		Tool Steel Round Bar 0.375 dia.	Firmed	-	11/15/18	6 ft	0 ft	6 ft	\$4.866666/ft	\$29.20
25 ✓ AT		M304S11GA		304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240	Firmed	-	11/15/18	32 sf	0 sf	32 sf	\$15.5375/sf	\$497.20
26 ✓ AT		MT-4140QT-R9.000		AISI 4140 Q&T Round Bar 9.000" Dia.	Firmed	-	11/15/18	2.25 ft	0 ft	2 ft	\$724.60444/ft	\$1,630.36

Line Item Note: 6 pcs of 4.50"

Grand Total: \$10,974.18

## **Order Notes**

### **Procurement Quality Clauses**

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

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# ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## Quotation

SOU0144781

### Billed to

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

**Customer N°** CLI0001056  
**Date** 2018/11/06  
**Revision N°** 0  
**Prices valid until** 2018/11/13  
**Your Order N°**  
**Processed by** Josianne Bourdon  
**Salesman** DENIS  
**Carrier** OUELLE SDV  
**Credit Terms** Net 30 Days  
**Page** 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
FLAT ALU 1 1/4 X 4 1/2 6061-T6 NS FAL-114412 <b>9693</b> 1 X 12' 3-4 DAYS	79.38	12.00	PI_\$CLB	12.00	UN_\$UN		1.00	417.500	417.50
FLAT ALU 2 X 6 6061-T6 N 1 X 12' STOCK	0.00	12.00	UN	12.00	UN		1.00	3 540.000	3 540.00
SQUARE ALU 1 3/4 6061-T6 RANDOM NS CAL-134-V <b>8670</b> 1 X 12' 2-3 DAYS	43.18	12.00	PI_\$CLB	12.00	UN_\$UN		1.00	170.960	170.96
FLAT ALU 3/8 X 1 6061-T6 * FAL-381 <b>2613</b> 1 X 20' STOCK	9.00	20.00	PI_\$CLB	20.00	PI		1.00	31.500	31.50
FLAT ALU 1/8 X 3/4 6063-T5 * FAL-1834 <b>2552</b> 5 X 21' STOCK	11.87	105.00	PI_\$CLB	105.00	PI		5.00	8.306	41.53
FLAT ALU 3/4 X 6 6061-T6 * FAL-346 <b>2601</b> 2 X 12' STOCK	126.89	24.00	PI_\$CLB	24.00	PI		2.00	244.260	488.52
SQUARE ALU 1 6061-T6 * CAL-1 <b>1781</b> 2 X 12' STOCK	28.22	24.00	PI_\$CLB	24.00	PI		2.00	49.390	98.78
FLAT ALU 1 1/4 X 2 6061-T6 * FAL-1142 <b>2456</b> 3 X 12' STOCK	105.84	36.00	PI_\$CLB	36.00	PI		3.00	123.816	371.45
ROUND ALU 1 6061-T6 * RAL-1 <b>5141</b> 2 X 20' STOCK	37.00	40.00	PI_\$CLB	40.00	PI		2.00	60.300	120.60
ROUND ALU 1 1/4 6061-T6 * RAL-114 <b>5121</b> 2 X 20' STOCK	57.64	40.00	PI_\$CLB	40.00	PI		2.00	93.940	187.88

Date :

Next Page...



# ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## Quotation

SOU0144781

### Billed to

DART AEROSPACE LTD  
1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Customer N°** CLI0001056

**Date** 2018/11/06

**Revision N°** 0

**Prices valid until** 2018/11/13

**Your Order N°**

**Processed by** Josianne Bourdon

**Salesman** DENIS

**Carrier** OUELLE SDV

**Credit Terms** Net 30 Days

**Page** 2

### Shipped to

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND ALU 1/2 6061-T6 * RAL-12 <b>5127</b> 1 X 20' STOCK	4.62	20.00	PI_\$CLB	20.00	PI		1.00	16.170	16.17
ROUND ALU 1.875 6061-T6 <b>N</b> 1 X 12' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	225.000	225.00
ROUND ALU 2 3/4 6061-T6 * RAL-234 <b>5148</b> 1 X 20'2-3 DAYS	139.40	20.00	PI_\$CLB	20.00	PI		1.00	453.050	453.05
ALU PLATE 1/2 6061-T651 RANDOM PAL-126061-V <b>4229</b> 1 PL. 48" X 48" STOCK SAW CUT SCIE <b>1</b>	116.00	16.00	PI2_\$CLB	16.00	PI2		1.00	478.200	478.20
ROUND SS 1 304 (R) RSS-1 <b>5747</b> 3 X 12' R/L STOCK	96.12	36.00	PI_\$CLB	36.00	PI		3.00	151.853	455.56
ROUND SS 3/8 304 (R) RSS-38 <b>5768</b> 1 X 12' R/L STOCK	4.51	12.00	PI_\$CLB	12.00	PI		1.00	15.070	15.07
FLAT 1 1/4 X 3 * F-1143 <b>2133</b> 1 X 10' STOCK SAW CUT SCIE <b>1</b>	127.50	10.00	PI_\$CLB	10.00	PI		1.00	132.340	132.34
ROUND 4140 HEAT TREAT 3/8 NS R4140-38H <b>9446</b> 1 X 12' 7-10 DAYS	4.51	12.00	PI_\$CLB	12.00	UN_\$UN	31.96			383.52

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Quotation****SOU0144781****Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER Tél.: (613) 632-5200 X 730

**Customer N°**

CLI0001056

**Date**

2018/11/06

**Revision N°**

0

**Prices valid until****2018/11/13****Your Order N°****Processed by**

Josianne Bourdon

**Salesman**

DENIS

**Carrier**

OUELLE SDV

**Credit Terms**

Net 30 Days

**Page**

3

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND 4140 HEAT TREAT 7/8 (R) R4140-78H <b>4997</b> 1 X 20' R/L STOCK	40.90	20.00	PI_\$CLB	20.00	PI		1.00	84.230	84.23
ROUND 4140 ANNEALED 4 1/2 (R) R4140-412A <b>4957</b> 1 X 5' DC STOCK	277.95	5.00	PI_\$CLB	5.00	PI		5.00	79.466	397.33
ROUND 4140 HEAT TREAT 9 NS R4140-9H <b>9642</b> 6 X 4 1/2" 7-10 DAYS <i>J-F-S check</i>	486.68	2.25	PI_\$CLB	2.25	UN_\$UN		6.00	271.726	1 630.36
ROUND STRESSPROOF 4 (R) RST-4 <b>5820</b> 1 X 10' STOCK SAW CUT SCIE <b>1</b>	427.20	10.00	PI_\$CLB	10.00	PI		1.00	548.060	548.06
ROUND STRESSPROOF 5 RANDOM NS RST-5-V <b>9054</b> 1 X 4' 7-10 DAYS	267.00	4.00	PI_\$CLB	4.00	UN_\$UN		1.00	1 588.650	1 588.65
PLAT 2.0 X 4.0 4140 <b>N</b> 1 X 8' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	785.000	785.00
PLAT 1.5 X 2.0 4140 <b>N</b> 1 X 8' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	385.000	385.00
MECH TUBE 5.25 X .375W A-513 <b>N</b> 1 X 8' 3-5 DAYS	0.00	1.00	UN	1.00	UN		1.00	830.000	830.00
PLAT 3/8 X 1/2 0-1 <b>N</b> 2 X 3' 3-5 DAYS	0.00	2.00	UN	2.00	UN		2.00	63.250	126.50

Date :

**Next Page...**



**ACIER OUELLETTE INC.**

935, Boul. du H vre  
Salaberry de Valleyfield (Qu bec) J6S 5L1  
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

**Quotation****SOU0144781****Billed to**

DART AEROSPACE LTD  
1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : PATRICK LUSSIER T l.: (613) 632-5200 X 730

**Customer N ** CLI0001056  
**Date** 2018/11/06  
**Revision N ** 0  
**Prices valid until** 2018/11/13  
**Your Order N **  
**Processed by** Josianne Bourdon  
**Salesman** DENIS  
**Carrier** OUELLE SDV  
**Credit Terms** Net 30 Days  
**Page** 4

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROND 3/8 0-1 <b>N</b> 2 X 3' 3-5 DAYS	0.00	2.00	UN	2.00	UN		2.00	14.600	29.20
SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B <b>3402</b> 1 X 4' X 8' STOCK	168.00	32.00	PI2_\$CLB	1.00	UN		1.00	497.200	497.20
PALETTE PALETTE <b>7573</b>	0.00	1.00	UN_\$UN	1.00	UN_\$UN		1.00	40.000	40.00
FUEL CHARGE <b>FRAIS_ENERGETIQUE</b> <b>NOTE : ATTENTION: MILL TEST REQUIS</b>			\$						3.95

**Total Weight (Lbs)** 2 659.41

**Important**

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices and international importation fees.  
This offer is subject to credit approval.

Approved and Accepted by : \_\_\_\_\_

Date : \_\_\_\_\_ **Total (\$CAD)** 16 467.61

**Sub-total** 14 573.11

TVH-13 \* 1894.50

## Chantal Lavoie

---

**From:** Chantal Lavoie  
**Sent:** Tuesday, November 06, 2018 1:35 PM  
**To:** 'Denis Quenneville'  
**Subject:** quote

Good afternoon Denis,  
Please advise price on delivery on mat'l.

~~6061-t6 bar 1.250" x 4.5" x 12 ft~~  
~~6061-t6 bar 6" x 2" x 12 ft~~  
~~6061-t6 bar 1.750" x 1.750" x 12 ft~~  
~~6061-t6 bar 0.375" x 1" x 12 ft~~  
~~6061-t6 bar 0.750" x 0.125" x 100 ft~~  
~~6061-t6 bar 0.750" x 6" x 24 ft~~  
~~6061-t6 bar 1" x 1" x 24 ft~~  
~~6061-t6 bar 2" x 1.250" x 36 ft~~

~~6061-t6 round bar 1" x 24 ft~~  
~~6061-t6 round bar 1.250" x 24 ft~~  
~~6061-t6 round bar 0.500" x 12 ft~~  
~~6061-t6 round bar 1.875" x 12 ft~~  
~~6061-t6 round bar 2.750" x 12 ft~~

~~6061-t6 sheet 0.500" x 1 pcs of 4 ft x 4 ft~~

~~304 round bar 1" x 36 ft~~  
~~304 round bar 0.375" x 12 ft~~

Hrs bar 1.250" x 2.5" x 8 ft

~~4140 qt round bar 0.375" x 12 ft~~  
~~4140 qt round bar 0.875" x 12 ft~~  
~~4140 round bar 4.5" x 3 ft~~  
~~4140 qt round bar 9" x cut to size 4.50" x 6 pcs~~

~~1144 round bar 4" x 6 ft~~  
~~1144 round bar 5" x 4 ft~~

~~4140 bar 2" x 4" x 8 ft~~  
~~4140 bar 1.5" x 2" x 8 ft~~

~~A513 round tubing 5.250" x 0.375" x 12 ft~~

~~O1 bar 0.375" x 0.500" x 6 ft~~

~~O1 round bar 0.375" x 6 ft~~

~~304 sheet 11ga x 32 sf~~

Thanks  
Chantal

**Chantal Lavoie**  
*Purchasing Coordinator*

DART AEROSPACE  
T 1 613 632-5200  
F 1 613 632-1053  
E [clavoie@dartaero.com](mailto:clavoie@dartaero.com)  
1 800 556- 4166  
[www.dartaerospace.com](http://www.dartaerospace.com)





## ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## DELIVERY - CLIENT

CO00120092

### Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att: LUSSIER Tél.: (613) 632-5200 X 730

Instruction F-M

Delivery Route 5

Customer N° CLI0001056

Date 2018/11/09

Delivery date 2018/11/19

Your order N° 041674

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Product Description	Weight	Qty	UM	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
1 FLAT ALU 1 1/4 X 4 1/2 6061-T6 NS FAL-114412 9693 1 X 12' HEAT: 05281804 AC21531-THY-14/11	79.38	12.00	PL_\$CLB		1x12'						
2 SQUARE ALU 1 3/4 6061-T6 RANDOM NS CAL-134-V 8670 1 X 12' HEAT: 894382 AC21549-RY-14/11	43.18	12.00	PL_\$CLB		1x12'						
3 ROUND ALU 1 7/8 6061-T6 NS RAL-178 12192 1 X 12' Heat: 200227259 AC21531-THY-14/11	38.92	12.00	PL_\$CLB		1x12'						
4 ROUND ALU 2 3/4 6061-T6 * RAL-234 5148 1 X 20' HEAT: SXB150109 TRANSIT ST-JEROME LE 14/11	139.40	20.00	PL_\$CLB		1x20'						
5 ROUND STRESSPROOF 4 (R) RST-4 5820 1 X 10' HEAT: A140456 TRANSIT ST-JEROME LE 14/11 SAW CUT	427.20	10.00	PL_\$CLB		1x10'						
6 TUBE MEC 5.250 OD X .375 NS TME-5250375 12191 1 X 12' HEAT: 0110119 AC21532-JG-21/11	234.24	12.00	PL_\$PI		1x12'						not delivered



# DELIVERY - CLIENT

CO00120092

Product Description	Qty	Weight	UM	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
7 FLAT GRD STOCK 01 3/8 X 1/2 NS FO1-3812 2 X 3' HEAT AC21534-FU-14/11 b/o	3.83	6.00	PI								
8 ROUND 01 - 3/8 NS RO1-38 2 X 3' HEAT AC21534-FU-14/11 b/o	2.26	6.00	PI_\$CLB								

Note : ATTENTION: MILL TEST REQUIS

Conditions :  
All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Total Weight (Lbs) : 968.41

NIR : R-109516-6

Prepared By :	Verified By : [Signature]	Delivered By : [Signature]	Time	Y [8]	M [1]	D [23]
Customer's Signature				Date		



# ACIER OUELLETTE INC.

935, Boul. du Havre  
Salaberry de Valleyfield (Québec) J6S 5L1  
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

## DELIVERY - CLIENT

Copy

CO00120175

### Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Shipped to

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

### Instruction

F-M

Att : LUSSIER Tél.: (613) 632-5200 X 730

### Delivery Route

5

### Customer N°

CLI0001056

### Date

2018/11/12

### Delivery date

2018/11/26

### Your order N°

041674

### Processed by

Josianne Bourdon

### Salesman

### Carrier

OUELLETTE VALLEYFIELD

### Credit Terme

Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
1 ROUND 4140 HEAT TREAT 3/8 NS R4140-38H 1 X 12' HEAT AC21548-CAS-22/11 Heat: 01537	4.51	12.00	PI_ \$CLB						
2 ROUND 4140 HEAT TREAT 9 NS R4140-9H 6 X 4 1/2" HEAT AC21547-FU-21/11 Heat: 18121	486.68	2.25	PI_ \$CLB						
3 PLATE 4140 HEAT TREAT 2 NS P4140-2H 1 X 4" X 96" HEAT AC21547-FU-21/11 Heat: 300536	218.12	2.67	PI2_ \$CLB						
4 PLATE 4140 HEAT TREAT 1 1/2 NS P4140-112H 1 X 8' X 2" HEAT AC21547-FU-21/11 Heat: 604714	2.17	1.33	PI2_ \$CLB						

Note : ATTENTION: MILL TEST REQUIS





# DELIVERY - CLIENT

Product Description

Qty

Weight

UM

Total Weight (Lbs) : 711.48

PCS NB

CMD

EXP

B/O

IN

I

S

C

OUT

CO0012017E

## Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. Any default in within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By :

Time

SB

Y M D  
18 11 23

Date

Customer's Signature

120012

Dart

2/531N



Can Do.

**Service Center Metals**  
5850 Quality Way  
Prince George, VA 23875

# CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



OUR ORDER NUMBER	ITEM
953979	7

CERTIFICATION  
**ASTM-B221-14 StencilCont**  
SPECIFICATION  
SAE AMS-QQA-200/8A Stabilized  
RoHS 2011/65/EU Compliant

DATE OF SHIPMENT  
6/26/2018  
SALESPERSON  
D. Schroeder (Canada)  
DIE NUMBER  
MRB1771  
ALLOY / TEMPER  
6061-T6511  
DESCRIPTION  
MQRB 1.250x4.500

MANIFEST NUMBER  
371534  
CUSTOMER PO  
5400404994  
CUSTOMER PART NUMBER  
ALREC00162

Quantity Certified 2,404 lbs 30 pcs

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

All aluminum products supplied by Service Center Metals, LLC contain no functional mercury. Neither mercury nor its compounds are used in the manufacture of aluminum products at our facility. Furthermore, aluminum products supplied by Service Center Metals have not, to the best of our knowledge, contacted any source of mercury.

This product is RoHS-2, REACH, and DFARS compliant.

SCM is ISO 9001-2015 certified

## Mechanical Properties

Tests	Lot No.	Test Date		Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
		min	max	min	max	min	max	min	max
1	201811618	51.50	51.50	47.10	47.10	16.70	16.70		

## Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
											Each	Total
05281804	201811618	6061	0.74	0.37	0.35	0.10	0.86	0.08	0.07	0.03	0.05	0.15
											United States of America	

SCM products are melted and extruded in the USA

*Calvin J. Wiggins*

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 6/26/2018

Heat: 05281804

Rev 3/14/2018

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061T6/T6510/T6510/T6510/T62 ALUMINUM BAR

SPECIFICATION:  
QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW |  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
2009-05-03  
NAD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTE 5, ADD ASTM B211/B211 (Zn D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED			
MFG APPR			
APPROVED			
DE APPR			
DATE	09.07.13		
DART AEROSPACE LTD HAYKESBURY, ONTARIO, CANADA		REV B	
DRAWING NO M6061T6B		SHEET 1 OF 1	
TITLE 6061-T6 BAR		SCALE N/A	
DATE		09.07.13	
COPYRIGHT © 2001 BY DART AEROSPACE LTD All Rights Reserved. No part of this drawing may be reproduced without written permission of DART AEROSPACE LTD.			

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B1 252x4.500

PO / BATCH NO.: P0041674 S131147

DATE: 18/11/23

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.250"

QUANTITY RECEIVED: 12ft

THICKNESS RECEIVED: 1.250"

QUANTITY INSPECTED: 12ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u>	N	<u>ASTM B221</u>
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	<u>HT-05281804</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>18/11/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



120092

Dart

21549N

## CERTIFICATE OF COMPLIANCE



SIGNATURE ALUMINUM CANADA

1850 CLEMENTS RD  
PICKERING, ON L1W 3R8

Cert Date	Cert No.	Sales Order	Page
02/10/2018	5465480	130941	1
Cust PO	B/L No	Lot	Date
4500861760	035845	894382	02/12/18

Sold To		Ship To	
Item No	Part No	Item Description	Cust Part
001	C-011508-9	12 MILL 6061 T6511	
Gross Weight	1,380 LBS		
Net Qty	1,362 LBS      32 PCS      1 PKGS		
Specification		Die Desc	
ASTM B221-13			

## Mechanical Tests:

Tensile	Yield			
MPA / KSI	MPA / KSI	% Elongation	Conductivity	HRE
313.8 / 45.5	287.6 / 41.7	17.4	N/A	94

## Chemical Analysis:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	V	Zr
0.63	0.26	0.22	0.05	0.90	0.07	0.03	0.01	0.01	0.00

This Material is Made in Canada

This Material is RoHS Compliant

This will certify that the material described herein has been inspected and tested in accordance with Signature Aluminum Canada's standard sampling and testing procedures or in accordance with the requirements of any specification forming a part of the material description to the extent indicated herein. Data of chemical composition for the material and test results from samples representative of the material are set forth above hereof or in any attachments hereto. This information shows that the material meets the applicable requirements. Inspection and test records are maintained on file. This certificate shall be deemed apart of and subject to the terms and conditions of warranty set forth on the reverse side of our order acknowledgement form. No other warranties are applicable.

S. Gooder  
Quality Manager  
Signature Aluminum Canada Inc

Heat: 894382

ISO 9001/TS16949 Registered Company

Visit us at [www.signaturealuminum.com](http://www.signaturealuminum.com)

Rev A

---

**CERTIFICATION DU MATÉRIEL**

**CLIENT:**  
**SALABERRY-DE-VALLEYFIELD**

**ACIER OUELLETTE INC DIV.DE**  
  
935 BOUL DU HAVRE  
SALABERRY-DE-VALLEYFIELD, QUEBEC  
QC J6S 5L1

**NUMÉRO DE COMMANDE:** 15086026 000010  
**COMMANDE DU CLIENT:** ac00021549 10  
**NUMÉRO DE PIÈCES:** 8670  
**NUMÉRO DE LIVRAISON:** 803980218 000010

**NUMÉRO D'ARTICLE:** 160001146  
**DESCRIPTION INVENTAIRE:** SQ EXT 6061 T6511 1.75 X 144

**DESCRIPTION ARTICLE FINIS:** ALUM Barre SQ EXT 6061 T6511  
1.75po X 144po

**NUMERO (S) DE COULÉE** **BRAME / BOBINE / TIN (le cas échéant)**  
  
894382 411066


**CERTIFICATION**

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système d'écoulement qui pourrait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié à qu'il a été produit conformément aux spécifications suivantes:

ASTM B221

11/14/2018

  
Thomas Endres  
Vice-président - Approvisionnement



# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL (6061-T6/T651/T6510/T651/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B T.TTT X WWW.WWW  
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED  
2009-09-03

B	REMOVE QQ-A-200/11 OPTION, REFORMAT NOTE 5, AND ASTM B211/B221 (2N D7-1)	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN			
CHECKED	DS		
MFG APPR.	M6061T6B		
APPROVED			
DE APPR.			
DATE	09 07 13		

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. REV. B  
M6061T6B SHEET 1 OF 1  
TITLE SCALE  
6061-T6 BAR NTS

COPYRIGHT © 2001 BY DART AEROSPACE LTD.  
THIS DOCUMENT IS UNCLASSIFIED AND IS NOT A CONTROLLED DOCUMENT

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 B1.750 x 1.750

PO / BATCH NO.: P0041674/S131148

DATE: 18/11/23

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.750"

QUANTITY RECEIVED: 12ft

THICKNESS RECEIVED: 1.750"

QUANTITY INSPECTED: 12ft

SHEET SIZE ORDERED: -

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	HT: 894382
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>61</u>	SIGNED OFF BY: _____		
DATE: <u>18/11/23</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: 5400407322-6		CUSTOMER PART NUMBER: ALRD00068		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 1.875+/- .005	
KAISER ORDER NUMBER: 6056577	LINE ITEM: 006	SHIP DATE: 06/25/2018	KAISER LOT NUMBER: Z00227259	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1013.000 LB	QUANTITY: 26.000 PCS	B/L NUMBER: 623233	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO:			SOLD TO:		

### Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00227259	0001	0001	55.2	52.1	14.7	RE 93	N/A	N/A
Z00227259	0001	0002	51.3	47.2	16.1	RE 95	N/A	N/A
Z00227259	0001	0003	51.0	47.2	18.6	RE 96	N/A	N/A
Z00227259	0001	0004	55.5	52.2	14.5	RE 93	N/A	N/A
Z00227259	0001	0005	52.0	48.4	15.7	RE 96	N/A	N/A

### Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108678	.78	.27	.31	.10	.95	.09	.05	.02	.00	.00	.00	.01	.04

### Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061  
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL  
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA  
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY  
OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

Plant Serial: 00339773  
Kaiser Order Number: 6056577  
Line Item: 006

Z 00 227259

**KAISER**  
**ALUMINUM**  
**FABRICATED PRODUCTS**

*Best in Class*

**CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM  
FABRICATED PRODUCTS, LLC  
5205 KAISER DRIVE  
KALAMAZOO, MI 49048

**CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

*Aimee L. Macnowski*



# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6511/T62 ALUMINUM ROUND BAR  
SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R1D-DDD  
WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED  
R 2009-09-03

REV	DESIGN	DESCRIPTION	DATE
A	DRAWN	DART AEROSPACE LTD	09.07.13
	CHECKED	HAWKE SBURY, ONTARIO CANADA	
	MFG APPR	DRAWING NO	
	APPROVED	M6061T6R	
DATE	09.07.13	TITLE	REV. B
		6061-T6 ROUND BAR	SHEET 1 OF 1
			SCALE
			NTS
			COPYRIGHT © 2001 BY DART AEROSPACE LTD

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6R1.875  
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131149

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 12ft  
 QUANTITY INSPECTED: 12ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.875"  
 THICKNESS RECEIVED: 1.875"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM B221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	HT: 200227259
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>61</u>		SIGNED OFF BY: _____	
DATE: <u>18/11/23</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





CÔNG TY CỔ PHẦN NHÔM VIỆT NAM  
CÔNG TY CỔ PHẦN NHÔM VIỆT NAM  
CÔNG TY CỔ PHẦN NHÔM VIỆT NAM  
CÔNG TY CỔ PHẦN NHÔM VIỆT NAM

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Conac industrial zone, My Xuan town, Tan Thanh district,  
Ba Ria-Vung Tau province, Viet Nam

Tel: +84(0)643924954

Fax: +84(0)643924953

## MILL TEST CERTIFICATE

Date: June 25<sup>th</sup> 2015

PO number: 15-P-060

Shipping Ref No.: 15-0421

L.C No.: DC HMN330723

Date of issue: 26 June, 2015

Item Code: 1043702

Die Number: D00020

Alloy & Temper: 6061-T6

Production Description: Round Bar 2.75" x 20'

Length (inch): 240

Quantity (pieces): 7

Bundle number: 15-P-060-016

Heat Number: SXB150109

Lot Number: JY150570F

Date: 28-05-2015

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other		Al	Remark:
								EACH	TOTAL		
0.562	0.132	0.245	0.025	0.906	0.045	0.009	0.020	<0.05	<0.15	98.021	25/05/2015

MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
53.0	48.4	14.5	25/05/2015

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager

Heat: SXB 150109

RA-234

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 6061-T6 / 6061-T6510/T6511/T62 ALUMINUM ROUND BAR  
 SPECIFICATION: QQ-A-225/B OR AMS-QQ-A-225/B (OR AMS 4117/4123/4115/4116)  
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)  
 OR ASTM B211 OR ASTM B221  
 PART NUMBER: M6061T6R[D,DD] DIA.  
 WHERE "D,DD" = DIAMETER IN INCHES  
 EG. 5/8" ROUND BAR = M6061T6R0.625

RELEASED  
 R 2009-09-09  
 MP

B	REFORMAT DXG: ADD B211 & B221 SPEC (IN D6-1) REF PAR 08-020A	CP	09.07.13
A	NEW ISSUE	DS	01.08.09
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR			
DATE	09.07.13		

DART AEROSPACE LTD HAWKESBURY, ONTARIO CANADA	
DRAWING NO.	M6061T6R
TITLE	6061-T6 ROUND BAR
SCALE	NTS
SHEET 1 OF 1	
COPYRIGHT © 2007 BY DART AEROSPACE LTD	

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606176R2.750  
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131150

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 20L4  
 QUANTITY INSPECTED: 20L4  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.750"  
 THICKNESS RECEIVED: 2.750"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>ASTM B221</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>MT: SXB150109</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <u>61</u> DATE: <u>18/11/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



120175

Dart

21548N



IMMEDIATA S.p.A. - Via Giuseppe Roda 1 - 10123  
Tel. +39031675111 - Fax +39031675312  
Internet: www.rodacciai.com - e-mail: info@rodacciai.com

Azienda con sistema di gestione certificato da ISO  
secondo UNI EN ISO 9001:2008

The Company's Quality Management System  
is certified by ISO according to UNI EN ISO 9001:2008

2

CERTIFICATO DI CONTROLLO Inspection Certif N. 080335 Date 31/05/2018

Secondo According to . . . . . EN 10204:2004 3.1

DESTINATARIO - Cargo-Receiver

CLIENTE - Customer

RODA SPECIALTY STEEL, INC.

RODA SPECIALTY STEEL, INC.

200 LEXINGTON DR  
60089 BUFFALO GROVE ILLINOIS

200 LEXINGTON DRIVE  
60089 BUFFALO GROVE IL.

ORDINE - Order

N. 902061

Date 30/10/2017

D.d.T. - Delivery note

N. 06797/13 Date 6/06/2018

Weight

Lib

4894

Cdp. Nr.

2017/A/58448

Bars Length 12 - 12 ft.

QUALITA' - Grade

STANDARD ASTM A193/A193M 16

Grade B7

STANDARD ASME SA A193/A193M

Grade B7

Mark RODACCIAI

RK1 / B7

Melted in :

COLATA - Heat

D1537

ORI MARTIN S.P.A.

PROFILO - Shape

ROUND

Italy

I

DIMENSIONE - Size

3/8"

TRATTAMENTO - Heat Treatment

QUENCHED AND TEMPERED

ESECUZIONE - Form of delivery

COLD DRAWN

ANALISI CHIMICA DI COLATA - Cast analysis % by mass

C	Mn	Si	S	P	Cr	Ni	Mo	Al	Cu
0,430	0,780	0,200	0,0240	0,010	1,070	0,090	0,160	0,023	0,100

B  
0,0001

CARATTERISTICHE MECCANICHE ALLO STATO DI FORNITURA

Mechanical properties of the delivered material

		Tested	Min	Max
Tensile Strength	Rm PSI	141162,3	130000	
Yield Strength	Rp(0,2) PSI	117021,4	110000	
Elongation	A 4 (%)	26,3	16	
Hardness	HBW	289,0		321
Reduction of area	Z (%)	55,7	50	

Heat: D 1537

**Segue certificato di controllo**  
**Inspection Certificate's continuance.**

N. 080335 Date 31/05/2018

**TEMPIRABILITA' JOMINY - Jominy Hardenability**

Distance mm	1,5	3	5	7	9	11	13	15
Hardness HRC	59,0	58,0	59,0	57,0	56,0	54,0	51,0	49,0
Distance mm	20	25	30	35	40	45	50	
Hardness HRC	44,0	41,0	38,0	36,0	36,0	35,0	34,0	

**DIMENSIONE GRANO AUSTENITICO - Austenitic grain size**

Value . . . . . 6 ISO 643:03-ASTM E112

**TENORE INCLUSIONALE - Inclusion Content**

According to DIN 50602 (Stahl Eisen Pruefblatt 1570 71)  
 Method K: total value (oxides) . . . . . K 3 = 4

**NOTE - Notes**

According to: ASTM A434 17 grade BB and BC - ASTM A962-17  
 ASTM A304-16  
 According to: ASTM A962-17 A Sec.5 ASTM A108-13  
 ASTM A29/A29M-16 ASTM A255- ASTM A304-16  
 Electrical Furnace Quenching : 1715°F 3 hours / oil  
 Tempering : 1130 °F 9 hours / still air  
 Free of mercury contamination - No Weld Repair  
 Macro etch examination according to ASTM E381: satisfactory.  
 Reduction ratio = 326,0 To 1,0 - Minimum 5:1  
 DI Value= 4,775"  
 100% crack tested : OK  
 This product was manufactured in Italy  
 Compliant to DEARS clause 252.225-7009 and -7012 .

**Tempering temperature : 593 C Min**

**Macroetch examination according to ASTM E381: B 1; R 1; C 1**

We certify hereby, that the above mentioned products are consist-  
 ent with the order prescriptions.

This certificate was generated by data system acc. to EN 10204,  
 it is not necessary to be signed for validity.

Materiali conformi alle seguenti direttive/regolamenti europei:  
 - 76/769/CEE e successive modifiche  
 - 2000/53/CE, 2002/95/CE, 2006/67/CE, 2008/33/CE e 2008/112/CE  
 - relativo al regolamento (UE) 2017/1369  
 - 2006/117/CE  
 - 2002/95/CE e 2011/65/UE Allegato IV  
 - 24 giugno 2016 e 2017/2009 Allegato IV del 13 giugno 2017-05-21  
 e lista SRM-ENC aggiornata al 15/01/2018  
 - 2002/95/CE e 2011/65/UE o successive modifiche  
 - Direttiva RoHS: 2002/95/CE - 2011/65/UE o successive modifiche  
 Materiali conformi a Doss-Pratt Act relative a minerali provenienti  
 dalle zone del conflitto.

Material conforming to the following European directives/regulations:  
 - 76/769/EEC and following amendments  
 - 2000/53/EC, 2002/95/EC, 2006/67/EC, 2008/33/EC and 2008/112/EC  
 on 24-01-1116 2017/1369 (EU)  
 - 2006/117/EEC  
 - 2002/95/EC - 2011/65/EC - EU 644/2012 enclosed IVII  
 - 24 June 2016 - EU 2017/2009 enclosed IV 13 June 2017  
 and list SRM-ENC updated on 15/01/2018  
 - 2002/95/EC - 2011/65/EC or following amendments  
 - RoHS Directive: 2002/95/EC - 2011/65/EC and following amendments  
 Material conforming to Doss-Pratt Act related to conflict minerals.



RES ONLY

**SPECIFICATION CONTROL DRAWING**

PURCHASE MATERIAL : AISI 4140 ROUND BAR  
MINIMUM ROCKWELL C = 28 Rc  
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, ASTM A434-BC/BD, ASTM A193-B7

PART NUMBER: MT-4140-R-[D.DDD]  
WHERE "D.DDD" = DIAMETER IN INCHES  
EX. 4" ROUND BAR = MT-4140-R-4.000

NOTE: ALSO COMMONLY KNOWN AS AISI 4140 HT/QT

B	MIN/MAX Rc UPDATED, ADDED NOTE FOR HT/QT, ADDED ASTM A434-BC/BD, ASTM A193-B7 AND MIL-S-5626		18-524	KK
A	NEW ISSUE		17-790	VM
REV.	DESCRIPTION		ECN #	BY
DESIGN	DART AEROSPACE LTD			
DRAWN	HAWKESBURY, ONTARIO, CANADA			
CHECKED	VM	TOOL PART #	REV. B	
MFG. APPR.	FK	MT-4140-R	SHEET 1 OF 1	
APPROVED	FK	TITLE	SCALE	
DATE	11/27/2018	AISI 4140 ROUND BAR	NTS	
COPYRIGHT © 2018 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT BE NOT TO BE USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM DART AEROSPACE LTD.				

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4/40QT-RD.375

PO / BATCH NO.: P0041674/S131151

DATE: 18/11/27

MATERIAL CERT REC'D: KS

THICKNESS ORDERED: 0.375"

QUANTITY RECEIVED: 124

THICKNESS RECEIVED: 0.375"

QUANTITY INSPECTED: 124

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u>	N	<u>ASTM A143-B7</u>
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	<u>HT.D1537</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>18/11/27</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



5320

Rest-4

Eaton Steel Bar Company Inspection Certificate 1606341

EN 10204:2004-3.1

Customer	BOL	Ship Date	Customer PO	Item	Customer Item	Item Description
		22-Nov-2016	B97156	1009791 rev 002		4 CD RD 1144R03 12H SBO SRA S2 CGP RT

All bundles listed below were produced using steel from Heat A140456 issued by STEEL DYNAMICS INC and were completed from Eaton Steel Job 763009.

Chemistry	Description	Value	Units
C	Carbon	0.40000	PMGT
Mn	Manganese	1.42000	PMGT
P	Phosphorus	0.01100	PMGT
S	Sulfur	0.23000	PMGT
Si	Silicon	0.25000	PMGT
Ni	Nickel	0.06000	PMGT
Cr	Chromium	0.15000	PMGT
Mo	Molybdenum	0.01000	PMGT
Al	Aluminum	0.00100	PMGT
Cu	Copper	0.15000	PMGT
V	Vanadium	0.00500	PMGT
Co	Columbium	0.00200	PMGT
N	Nitrogen	0.01000	PMGT
DI	Ideal Diameter	2.45000	IN
Geometry	Description	Value	Units
Diameter	Diameter	3.9950 - 4.0000	IN
Bundle Variation	Mean Within Bundle Variation	0 - 2	IN
Length	Length	140.0000 - 148.0000	IN
CF STRAIGHT	Cold Finished Deflection in 10ft.	0.0000 - 0.1250	IN
Mechanical	Description	Value	Units
TENSILE PSI	Tensile Strength in PSI Units	118400	PSI
YIELD PSI	Yield Strength in PSI Units	108000	PSI
ELONGATION	Percent Elongation	11.00	PCT
REDUCTION	Percent Reduction in Area	22.0	PCT
BRINELL SURF	Brinell Surface	245.0	BRN
Cold Working	Description	Value	Units
SEAM DEPTH	Allowable Seam Depth	0.0000 - 0.0960	IN
ASTM Standard	Description	Value	Units
A108-13	Steel Bars, CF Carbon & Alloy	CONFORMS	
A311 Class B	Heavy Draft CD SRA	CONFORMS	
Tag Number	Qty Units	Length	
260-142698	3763 LBS	12ft6in	


Bundle tags with Eaton Steel identifiers reference the steel grade, heat, purchase order number, part number, product description and weight. Tested and certified in accordance with Eaton Steels Quality Manual QM-00001 / Rev 3 / 2/26/13.

We hereby certify the above to be in conformance, and a true copy of data represented in company records. This steel was not subject to weld repair or exposed to mercury while in the possession of Eaton Steel.

Created on 22-Nov-2016  
Thomas Snabes, Corporate Metallurgist

10221 Capital Avenue, Oak Park, MI 48237 USA  
http://www.eatonsteel.com  
Tel: 248-398-3434  
Fax: 248-398-1434

Heat: A140456



03 Mechanical Testing Results - ASTM E 8-11

Certificate Number: 2087.01

Testing Laboratory

Sample ID: 14-TML-1582-01

Comments:

WO 763009 Part 1009791 Size 4.00 CD RD Grade 1144 Heat A140456

The following results are to ASTM E 8-11.

0.2% Offset Yield Test Report

0.2 % Offset Yield psi	108000
Ultimate Tensile psi	118400
Elongation Manual %	11
Reduction Area %	22
Hardness Brinell	-

When Metallurgy's uncertainty values for this test are maintained on file and are available upon request

Entered by: Steve Avery

Entered Date: 06/05/2014

Approved by: Tom Snabos

Approved Date: 08/05/2014

# 09 Hardness Results - ASTM E 10-01

Certificate Number: 2087.01 (3,000 lb.)  
Testing Laboratory



Sample ID: 14-TML-1582-01

Comments:

WO 763009 Part 1009791 Size 4.00 CD RD Grade 1144 Heat A140456

The following results are in the HBW scale.

1	245
2	-

Mean	245
Std Dev	-
Lowest	-
Highest	-
Range	-
Total Tests	1
Rejected	0

Titan Metallurgy's uncertainty values for this test are maintained on file and are available upon request.  
Entered by: Steve Avery  
Entered Date: 06/05/2014  
Approved by: Tom Snabes  
Approved Date: 06/05/2014

End of Report

Report # 14-TML-1582

# Lab Services Report

10221 CAPITAL AVENUE  
OAK PARK MI 48237  
(248) 543-3578 telephone  
(248) 398-1434 facsimile

Bill To:  
008010  
Eaton Steel Corporation  
10221 Capital Avenue  
Oak Park MI 48237  
Ship To:  
Eaton Steel Corporation  
10221 Capital Avenue  
Oak Park MI 48237  
Altir:  
Andrew Wurts  
248-398-3434  
awurts@titanmetallurgy.com  
Report Date:  
06/06/2014

This report contains results for the indicated services performed on the following sample(s):

Customer Sample #	Report Section	Service #
Titan Sample #		
WO 763009 Part 1009791	Size 4.00 CD RD Grade 1144 Heat A140456	
14-TML-1592-01 1	03 - Mechanical Testing - ASTM E 8-01 (1 Test)	
WO 763009 Part 1009791	Size 4.00 CD RD Grade 1144 Heat A140456	
14-TML-1592-01 2	09 - Hardness - ASTM E 10-01 (Brinell)	

Any services within a section marked with \* are not part of Titan Metallurgy's current A2LA accreditation.

*Thomas J. Snabes*

Thomas J. Snabes, Metallurgist

All testing performed by Titan Metallurgy was done at ambient (room) temperature.  
The results in this laboratory report relate only to the items tested.

For questions or comments contact us at 248-543-3578 or QandA@titanmetallurgy.com.

Cover Page

Report # 14-TML-1592

Section 1 of 2 sections

Report # 14-TML-1592

1 2 3 4 5 6 7 8

REV	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	WM

## SPECIFICATION CONTROL DRAWING

2010.09.12  
WM

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR  
SPECIFICATION: ASTM A311 or UNS G11440  
PART NUMBER: MT-1144-R [D.DDD]  
WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = MT-1144-R0.625

<b>DART</b> AEROSPACE Manufacturing Division, Canada	
TITLE: AISI 1144 STRESSPROOF STEEL ROUND BAR	
DWG NO:	REV: A
DESIGN BY: VM 8/03/2017	2000 1 2000 FRACTIONS IN IN
DRAWN BY: VM 08/31/2017	2X 1 21
CHECKED: SAC 08/31/2017	1. DIMENSIONS ARE IN INCHES
INSTR. APPL: DP 08/31/2017	2. UNLESS OTHERWISE SPECIFIED
QA APPL: PD 08/31/2017	3. ASME Y14.5M-2009
APPROVED: VM 09/05/2017	4. DIMENSIONS IN PARENTHESES APPLY
DATE: 8/31/2017	SCALE: NTS WEIGHT 0.0 LBS
SHEET 1 OF 1	
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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-1144-R4.000  
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S130152

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 10ft  
 QUANTITY INSPECTED: 10ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.000"  
 THICKNESS RECEIVED: 4.000"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>N</u>	
CORRECT FINISH	<u>Y</u>	N	
CORROSION	Y	<u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u>	N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u>	N	
CORRECT THICKNESS	<u>Y</u>	N	
PHOTO REQUIRED	Y	<u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u>	N	
CORRECT MATERIAL IDENTIFICATION	<u>Y</u>	N	
CORRECT M# ON THE MATERIAL	<u>Y</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> <u>61</u> DATE: <u>18/11/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





**ACIER OUELLETTE INC.**  
935, Boul. du Hâvre  
Salaberry de Valleyfield (Q. 3bec) J6S 5L1  
Tél.: 4 377-4248 Mt: 514-336-4243 Ext.: 800-667-4248  
Fax: 450-377-5696 Mt: 514-336-4246 Ext.: 866-456-4242

**DELIVERY - CLIENT**

Copy

CO00120218

**Billed to**

DART AEROSPACE LTD  
1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

**Shipped to**

1270, ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7  
Att : LUSSIER Tél.: (613) 632-5200 X 730  
**Delivery Route** 5

**Instruction** F-M

**Customer N°**

CLI0001056  
**Date** 2018/11/12  
**Delivery date** 2018/11/26  
**Your order N°** 041674  
**Processed by** Josianne Bourdon  
**Salesman**  
**Carrier** OUELLETTE VALLEYFIELD  
**Credit Terme** Net 30 Days

Product Description	Weight	Qty	UM	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ROUND STRESSPROOF 5 RANDOM NS RST-5-V 9054 1 X 4' HEAT TREAT 4180131 AC21560-JG-22/II	267.00	4.00	PI \$CLB		1X41					

**Note :** ATTENTION: MILL TEST REQUIS

**Conditions :**

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

**Total Weight (Lbs) :** 267.00

**NIR :** R-109516-6

Prepared By :

Verified By : Time

Delivered By : Y M D

Customer's Signature

Date



120218  
**CERTIFICATE OF TEST**  
**CERTIFICAT D'ESSAIS**

21560N

Page 01 of 02

Certification Date  
22-NOV-2018

*Dart*  
CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number  
T386186

AC00021560  
PART NUMBER/NUMÉRO DE PIÈCE  
547381

SOLD TO: ACIER OUELLETTE INC. SHIP TO: ACIER OUELLETTE INC.  
VENDU À: DIVISION SALABERRY DE VALLEYFIELD DIVISION SALABERRY DE VALLEYFIELD  
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE  
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: STRESSPROOF\* CF BAR ASTM A108

5 RD S/C 4.0" (48.0")

Line Total: 267.28 LB

HEAT: A180131

ITEM: 547381

Specifications:

ASTM A108 13

ASTM A29 16

ASTM A311 04

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.45	1.41	0.011	0.294	0.24	0.10	0.13	0.03
CU	AL	V	N	PB	B		
0.31	0.001	0.004	0.006	0.003	0.0017		

RCPT: R503328

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	111613.0	126782.0	10.1	25.7	255

IDEAL DIAMETER : 2.58 IN

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

*Joanne Despres*

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
22-NOV-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

AC00021560

Invoice Number  
T386186

PART NUMBER/NUMÉRO DE PIÈCE  
547381

<b>SOLD TO:</b>	ACIER OUELLETTE INC.	<b>SHIPPED TO:</b>	ACIER OUELLETTE INC.
<b>VENDU À:</b>	DIVISION SALABERRY DE VALLEYFIELD	<b>EXPÉDIÉ À:</b>	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6S

Description: STRESSPROOF« CF BAR ASTM A108  
5 RD S/C 4'0" ( 48.0")

Line Total: 267.28 LB

HEAT: A180131 ITEM: 547381

STRAND CAST REDUCTION RATIO 6.7 TO 1  
MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL

## COMMENTS

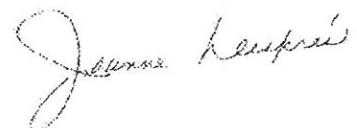
ACCEPTED FOR 1E0368 PN 141-5849 MP PER JMD 10-22-18

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.06.09	VM	WM

21.6.12  
WM

PURCHASE MATERIAL : AISI 1144 STRESSPROOF STEEL ROUND BAR  
SPECIFICATION: ASTM A311 of UNS G11440  
PART NUMBER: MT-1144-R [D.DDD]  
WHERE "D.DDD" = DIAMETER IN INCHES  
EG. 5/8" ROUND BAR = MT-1144-R0.625

<b>DART</b> AEROSPACE Headquarters, Ontario, Canada	
TITLE AISI 1144 STRESSPROOF STEEL ROUND BAR	
REVISED	REV
MT-1144-R	A
APPROVED BY: VM 08/01/2017	2000 1 000 FRACTIONS 1/8
CHECKED: SAC 08/31/2017	XX 1 01 ANGLES 2.5°
DATE: 08/31/2017	1. UNLESS OTHERWISE SPECIFIED
QA APPL: PD 08/31/2017	2. DIMENSIONS ARE IN INCHES
APPROVED: VM 09/05/2017	3. DIMENSIONAL LIMITS APPLY
DATE: 8/31/2017	SCALE: NTS WEIGHT: 0.0 LBS SHEET 1 OF 1
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THIS DOCUMENT IS UNCLASSIFIED AND IS NOT TO BE USED FOR THE PURPOSE OF REPRODUCING OR TRANSMITTING INFORMATION IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-1144-RS.000  
 DATE: 18/11/26

PO / BATCH NO.: P00416 741

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 414  
 QUANTITY INSPECTED: 414  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 5.020"  
 THICKNESS RECEIVED: 5.020"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y N	ASTM A311
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	MT: A1B0131
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>18/11/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



**Chemical certification**  
**Certification chimique**

21547N

Order Num / No. Commande <b>AC-21547</b>	Vendor / Fournisseur <b>46</b>	Country of origin / Pay d'origine <b>SLOVENIA</b>	Date <b>08/31/17</b>	Heat / coulée <b>300536</b>	Material ID # / No. matériel
Grade / Nuance <b>4140 PLT</b>	Conditions <b>HEAT TREATED Q&amp;T</b>				
Shape / Forme <b>FLAT</b>	Size / Dimension <b>2.000</b>	Specifications <b>ASTM A829/A829M</b>			

Chemical composition / Analyse chimique				
Carbon (C)	Silicon (Si)	Manganese (Mn)	Phosphorus (P)	
Mini / maxi 0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190	
Actuel % <b>0.410</b>	<b>0.226</b>	<b>0.743</b>	<b>0.007</b>	
Sulphur (S)	Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)	
Mini / maxi 0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500	
Actuel % <b>0.001</b>	<b>0.950</b>	<b>0.530</b>	<b>0.180</b>	
Cooper (Cu)	Vanadium (V)	Aluminum (Al)	Tungsten (W)	
Mini / maxi 0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000	
Actuel % <b>0.183</b>	<b>0.032</b>	<b>0.032</b>	<b>0.000</b>	
Cobalt (Co)	Titanium (Ti)			
Mini / maxi 0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel % <b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
<b>0.000 PSI</b>	<b>0.000 PSI</b>	<b>0.00</b>	<b>0.00</b>	<b>305 BHN</b>

**Note:**


We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

Heat: 300536

EX. 0.063" THICK SHEET = MT-4140-S-0.063  
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

TITLE		HANDBOOK, CRACKS, 2ND EDITION	
		AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO.	MT-4140-S	REV	A
TORL NO.	USE FOR OTHERS SPECIFIC SPECIFICATIONS INTERPRET FOR ASME Y 48-2058 (TEMPERATURE AFFECTED) FOR FINISHING		
DESIGNED BY:	WM 02/13/2018	FRACTIONS: 3/16	
DRAWN BY:	WM 02/13/2018	TOLERANCES: .005	
CHECKED BY:	WM 02/13/2018	ANGLES: .005	
MFG REVIEW BY:	WM 02/13/2018	SURFACE: RA .32	
APPROVED BY:	WM 02/13/2018	ROUNDSNESS	
SCALE: 1:1		SHEET 1 OF 1	
THE FOLLOWING MATERIAL SPECIFICATIONS ARE USED: DART AEROSPACE LTD 10000 DART AEROSPACE LTD, 10000 DART AEROSPACE LTD, 10000 DART AEROSPACE LTD 10000 DART AEROSPACE LTD, 10000 DART AEROSPACE LTD, 10000 DART AEROSPACE LTD			



## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-S-2.000x4.000

PO / BATCH NO.: P0041674/S131153

DATE: 18/11/23

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 2.000"

QUANTITY RECEIVED: 8ft

THICKNESS RECEIVED: 2.000"

QUANTITY INSPECTED: 8ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	ASTM A829
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	HT: 300536
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

<b>QC 18 INSPECTION</b>	<b>ENGINEERING SIGNOFF (if required)</b>
INSPECTED BY: <u>9-89</u> DATE: <u>18/11/23</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**Chemical certification**  
**Certification chimique**

21547

Order Num / No. Commande <b>AC-21547</b>	Vendor / Fournisseur <b>46</b>	Country of origin / Pay d'origine <b>SLOVENIA</b>	Date <b>07/15/18</b>	Heat / coulée <b>304714</b>	Material ID # / No. matériel
Grade / Nuance <b>4140 PLT</b>	Conditions <b>HEAT TREATED Q&amp;T</b>				
Shape / Forme <b>FLAT</b>	Size / Dimension <b>1.500</b>	Specifications <b>ASTM A829/A829M</b>			

Chemical composition / Analyse chimique				
Carbon (C)		Silicon (Si)	Manganese (Mn)	Phosphorus (P)
Mini / maxi	0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	0.0100 / 0.0190
Actuel %	0.420	0.219	0.759	0.009
Sulphur (S)		Chromium (Cr)	Nickel (Ni)	Molybdenum (Mo)
Mini / maxi	0.0200 / 0.0400	0.7500 / 1.2000	0.1000 / 0.2000	0.1500 / 0.2500
Actuel %	0.001	1.010	0.140	0.230
Cooper (Cu)		Vanadium (V)	Aluminum (Al)	Tungsten (W)
Mini / maxi	0.1900 / 0.2900	0.0400 / 0.0500	0.0000 / 0.0000	0.0000 / 0.0000
Actuel %	0.165	0.039	0.021	0.000
Cobalt (Co)		Titanium (Ti)		
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel %	0.000	0.000	0.000	0.000
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
0.000 PSI	0.000 PSI	0.00	0.00	
				Surface Hd / Dureté
				300/312 BHN

**Note:**

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:


Heat: 304714

AISI 4140 / 4142 STEEL SHEET OR PLATE  
MINIMUM ROCKWELL C = 28 Rc  
MAXIMUM ROCKWELL C = 32 Rc

ASTM A829, AMS 6395

MT-4140-S-[T.TTT] x [W.WWW]  
WHERE "T.TTT" = THICKNESS IN INCHES  
WHERE "W.WWW" = WIDTH IN INCHES (O

EX. 0.063" THICK SHEET = MT-4140-S-0.063  
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

	AISI 4140 / 4142 STEEL SHEET OR PLATE		REV <b>A</b>
	TITLE		PART NO.
MT-4140-S		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ASME Y14.5M-2009	1/8"
TOOL NO.		DIMENSIONS APPLICABLE AFTER FINISHING	1/4"
DESIGNED BY:	INITIALS AND DATE	TOLERANCES:	1/8"
DRAWN BY:	VM 02/13/2018	FRACTIONS:	1/8"
CHECKED BY:	VM 02/13/2018	ANGLES:	1/4"
MFG REVIEW BY:	VM 02/13/2018	SURFACE	1/8"
APPROVED BY:	ML 02/13/2018	ROUGHNESS	1/4"
COMMENTS:		SCALE: NTS 1:1	SHEET 1 OF 1
THE FOLLOWING INFORMATION IS FOR THE CUSTOMER'S USE ONLY. IT IS THE CUSTOMER'S RESPONSIBILITY TO OBTAIN THE MATERIAL FROM THE SUPPLIER. THE SUPPLIER IS NOT RESPONSIBLE FOR THE MATERIAL'S PERFORMANCE. THE SUPPLIER'S WARRANTY IS LIMITED TO THE MATERIAL'S CONFORMANCE WITH THE SPECIFICATIONS. THE SUPPLIER'S WARRANTY DOES NOT COVER THE MATERIAL'S PERFORMANCE. THE SUPPLIER'S WARRANTY DOES NOT COVER THE MATERIAL'S PERFORMANCE.			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-S-1.500 x 2.000  
 DATE: 18/11/23

PO / BATCH NO.: P0041674/S131154

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 8ft  
 QUANTITY INSPECTED: 8ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"  
 THICKNESS RECEIVED: 1.500"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>ASTM A829</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>MT-304714</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u><span style="color: blue;">DAS</span> <span style="color: blue;">61</span> <span style="color: blue;">9-89</span></u> DATE: <u><span style="color: blue;">18/11/23</span></u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# ACIER OUELLETTE INC.

935, Boul. du H vre  
Salaberry de Valleyfield (Qu bec) J6S 5L1  
T l.: 450-377-4248 M l: 514-336-4248 Ext.: 800-667-4248  
Fax: 450-377-5696 M l: 514-336-4246 Ext.: 866-456-4242

# DELIVERY - CLIENT

Copy

CO00122309

## Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

## Shipped to

1270 , ABERDEEN ST.  
HAWKESBURY, Ontario, K6A 1K7

Att : LUSSIER T l.: (613) 632-5200 X 730

## Instruction

F-M

## Delivery Route

5

**Customer N ** CLI0001056  
**Date** 2018/11/26  
**Delivery date** **2018/11/27**  
**Your order N ** 041674  
**Processed by** Denis Quenneville  
**Salesman**  
**Carrier** OUELLETTE VALLEYFIELD  
**Credit Terme** Net 30 Days

Product Description	Weight	Qty	UM	PCS NB				Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C	OUT
1 TUBE MEC 5.250 OD X .375 NS TME-5250375 12191 1 X 12' AC 25132-JG HEAT: Q110119 AT	234.24	12.00	PI_\$PI								

**Note :** ATTENTION: MILL TEST REQUIS

## Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

**Total Weight (Lbs) :** 234.24

NIR : R-109516-6

Prepared By :

Delivered By :

Time

Y M D  
18/11/27

Customer's Signature

Date



120092  
**CERTIFICATE OF TEST**  
**CERTIFICAT D'ESSAIS**

21532N

Page 01 of 02

Certification Date  
21-NOV-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number  
T386166

AC00021532  
PART NUMBER/NUMÉRO DE PIÈCE

108425

**SOLD TO:** ACIER OUELLETTE INC. **SHIP TO:** ACIER OUELLETTE INC.  
**VENDU À:** DIVISION SALABERRY DE VALLEYFIELD **EXPEDITION:** DIVISION SALABERRY DE VALLEYFIELD  
935, BOUL. DU HAVRE 935, BOUL. DU HAVRE  
SALABERRY-DE- VALLEYFIELD QC J6S 5L1 SALABERRY-DE- VALLEYFIE QC J6S

Description: 1026 DOM SRA A513/5  
5.250 OD X 4.500 ID S/C 12'0" (- 144.0") Line Total: 12 FT  
HEAT: 0110119 ITEM: 108425

Specifications:  
ASTM A513 TP 5 14  
DIN 50049

EN 10204 TYPE 3.1B  
ASTM A513 S5

ISO 10474  
ASTM A370

CHEMICAL ANALYSIS

C	MN	P	S	SI	AL	CU	NI
0.23	0.66	0.008	0.006	0.013	0.027	0.04	0.01
CR	MO	V	CA				
0.04	0.01	0.00	0.00				

RCPT: R627562

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED	HARDNESS
	PSI	PSI	IN 02 IN	IN AREA	RB
PAR E-MAIL	77654.0	88942.0	23.48		87
	77654.0	88942.0	23.48		87
	77654.0	88942.0	23.48		87

GRAIN SIZE : 5 -

21-NOV-2018

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.  
The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

Joanne Despres

MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

Heat: 0110119

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
21-NOV-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT  
AC00021532

Invoice Number  
T386166

PART NUMBER/NUMÉRO DE PIÈCE  
108425

<b>SOLD TO:</b>	ACIER OUELLETTE INC.	<b>SHIP TO:</b>	ACIER OUELLETTE INC.
<b>VENDU À:</b>	DIVISION SALABERRY DE VALLEYFIELD	<b>EXPÉDIÉ À:</b>	DIVISION SALABERRY DE VALLEYFIELD
	935, BOUL. DU HAVRE		935, BOUL. DU HAVRE
	SALABERRY-DE- VALLEYFIELD QC J6S 5L1		SALABERRY-DE- VALLEYFIE QC J6S

Description: 1026 DOM SRA A513/5  
5.250 OD X 4.500 ID S/C 12'0" ( 144.0")

Line Total: 12 FT

HEAT: 0110119 ITEM: 108425

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL  
EDDY CURRENT: YES  
ULTRASONIC: YES

## COMMENTS

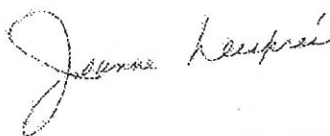
melt mill severstal dearborn  
melt country usa  
melt practice basic oxygen  
red. ratio > 6:1  
dfars compliant yes

PAR E-MAIL LE 22 NOV. 2018

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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JOANNE DESPRES  


MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

A vertical number line with tick marks labeled 1 through 8. The line is oriented vertically, with 1 at the top and 8 at the bottom.


SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-[D.DDD]W[T.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

		HAWKINSLEY DRIVE, CANADA	
		TEL:	
TITLE		PART NO.	
ASTM A513 TYPE 3 (1020-1028) ALLOY STEEL ROUND TUBING (DOM)		MT-A513-T	
SIZE, NO		REV	
DESIGNED BY:		10/28/05 OTHERWISE SPECIFIED:	
CHECKED BY:		INTERPRET PER ASME Y14.5 M 2003	
DATE:		DIMENSIONS ARE IN INCHES	
MFG REVISION BY:		INITIALS AND DATE	
APPROVED BY:		1/17/12/13	
DATE:		1/17/12/13	
MFG REVISION BY:		1/17/12/13	
APPROVED BY:		1/17/12/13	
DATE:		1/17/12/13	
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DATE:		1/17/12/13	
MFG REVISION BY:		1/17/12/13	
APPROVED BY:		1/17/12/13	
DATE:			



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-5.250W0.375

PO / BATCH NO.: P0041674/S132038

DATE: 18/11/27

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 5.250"

QUANTITY RECEIVED: 124

THICKNESS RECEIVED: 5.250"

QUANTITY INSPECTED: 124

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>(Y)</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>(Y)</u> N	<u>ASTM A513 Type 5</u>
CORRECT THICKNESS	<u>(Y)</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>(Y)</u> N	<u>MT: 0110119</u>
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u> N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u>	SIGNED OFF BY: _____	
DATE: <u>18/11/27</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

120175

Dart.

# Chemical certification Certification chimique

21547N

Order Num / No. Commande <b>AC-21547</b>	Vendor / Fournisseur <b>29</b>	Country of origin / Pay d'origine <b>USA</b>	Date <b>01/05/18</b>	Heat / coulée <b>L8121</b>	Material ID # / No. matière
Grade / Nuance <b>4140 RD</b>	Conditions				
Shape / Forme <b>RD</b>	Size / Dimension <b>9.000</b>	Specifications <b>ASTM A29-15</b>			

Chemical composition / Analyse chimique				
Carbon (C)		Silicon (Si)		Manganese (Mn)
Mini / maxi	0.3700 / 0.4400	0.1500 / 0.3500	0.6500 / 1.1000	Phosphorus (P)
Actuel %	<b>0.410</b>	<b>0.270</b>	<b>0.970</b>	<b>0.012</b>
Sulphur (S)		Chromium (Cr)		Nickel (Ni)
Mini / maxi	0.0000 / 0.0000	0.7500 / 1.2000	0.0000 / 0.0000	Molybdenum (Mo)
Actuel %	<b>0.027</b>	<b>0.940</b>	<b>0.130</b>	<b>0.200</b>
Cooper (Cu)		Vanadium (V)		Aluminum (Al)
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	Tungsten (W)
Actuel %	<b>0.260</b>	<b>0.000</b>	<b>0.034</b>	<b>0.000</b>
Cobalt (Co)		Titanium (Ti)		
Mini / maxi	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000	0.0000 / 0.0000
Actuel %	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
Mechanical properties / Propriétés Mécaniques				
Yield strenght / Élasticité	Tensile / Rés. à la traction	Elongation / Allon. (%)	Red. of area / Surface (%)	RC
<b>800.200 PSI</b>	<b>116.144 PSI</b>	<b>18.30</b>	<b>40.00</b>	<b>269 BHN</b>

**Note:**

We certify that the above data has been verified and are conform to an original mill or supplier certificate supplied to us with the material

Nous certifions que les données ci haut on été vérifier et sont conformes d'après un certificat originale qui nous a été fourni par notre fournisseur.

Prepared by: / Préparé par:

heat: L8121



8 7 6 5 4 3 2 1

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-790	17.12.13	VM	ML

**SPECIFICATION CONTROL DRAWING**

PURCHASE MATERIAL : AISI 4140 ROUND BAR  
MINIMUM ROCKWELL C = 20 Rc  
MAXIMUM ROCKWELL C = 38 Rc

SPECIFICATION: ASTM A29, AMS 6349, AMS 6382, AMS 6529

PART NUMBER: MT-4140-R-[D.DDD]  
WHERE "D.DDD" = DIAMETER IN INCHES  
EX. 4" ROUND BAR = MT-4140-R-4.000

<b>DART</b> AEROSPACE	
AISI 4140 ROUND BAR	
PART NO	REV
MT-4140-R	A
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS APPLY TO ENTIRE PARTING	
DESIGNED BY: VM 17/12/13	TOOLING: VM 17/12/13
CHECKED BY: VM 12/13/2017	FRACCTIONS: 1/8
APPROVED BY: DP 12/12/2017	ANGLES: ± 5°
APPROVED BY: ML 12/20/2017	ROUGHNESS: X ± 1
SCALE: NTS	
SHEET 1 OF 1	
COPYRIGHT © 2017 BY DART AEROSPACE LTD	

ML

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140QT-R9.00  
 DATE: 18/11/26

PO / BATCH NO.: P0041674/S121155

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 2.25ft  
 QUANTITY INSPECTED: 2.25ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 9.000"  
 THICKNESS RECEIVED: 9.000"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A29
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	MT: L8121
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>18/11/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in